

CLAIMS

1. An aerodynamic component comprising:
a main body configured to be connected to a wing of an aircraft; and
a control member connected to the main body, the control member comprising
5 a fixed member secured to the main body and a pivotable member configured to
increase a drag of the aircraft without substantially changing a lift of the aircraft.

2. The aerodynamic component according to claim 1, wherein the control
member further comprises a hinge member disposed between the fixed member and
the pivotable member, the hinge member configured to pivot the pivotable member
10 relative to the fixed member.

3. The aerodynamic component according to claim 1, wherein a portion of the
pivotable member is configured to be disposed adjacent to and within a projection of
the fixed member.

4. The aerodynamic component according to claim 1, wherein at least one of
15 the fixed member and the pivotable member extend in directions about perpendicular
to top and bottom surfaces of the main body.

5. The aerodynamic component according to claim 1, wherein the control
member comprises a delta shape.

6. The aerodynamic component according to claim 1, wherein the pivotable
20 member is configured to be pivoted about an axis perpendicular to a major plane of
the wing.

7. The aerodynamic component according to claim 1, wherein the pivotable
member is configured to be one of inwardly and outwardly pivotable.

8. The aerodynamic component according to claim 1, wherein the pivotable member is configured to be both inwardly and outwardly pivotable.

9. The aerodynamic component according to claim 1, wherein the main body comprises a recess configured to be connected to an outboard wingtip of the wing.

5 10. The aerodynamic component according to claim 9, wherein the recess defines at least one void configured to receive a fastener.

11. An aerodynamic component comprising:

a main body configured to be connected to a wing of an aircraft; and

means for increasing a drag of the aircraft without substantially changing a lift
10 of the aircraft, the means connected to the main body.

12. The aerodynamic component according to claim 11, wherein the means comprises a fixed member connected to the main body and a pivotable member configured to increase the drag without changing the lift.

13. The aerodynamic component according to claim 12, wherein a portion of
15 the pivotable member is configured to be disposed adjacent to and within a projection of the fixed member.

14. The aerodynamic component according to claim 12, wherein at least one of the fixed member and the pivotable member extend in directions about perpendicular to top and bottom surfaces of the main body.

20 15. The aerodynamic component according to claim 12, wherein the control member comprises a delta shape.

16. The aerodynamic component according to claim 12, wherein the pivotable member is configured to be pivoted about an axis perpendicular to a major plane of the wing.

17. The aerodynamic component according to claim 12, wherein the pivotable member is configured to be one of inwardly and outwardly pivotable.

18. The aerodynamic component according to claim 12, wherein the pivotable member is configured to be both inwardly and outwardly pivotable.

19. The aerodynamic component according to claim 12, wherein the main body comprises a recess configured to be connected to an outboard wingtip of the wing.

20. The aerodynamic component according to claim 19, wherein the recess defines at least one void configured to receive a fastener.